Theoretical Computer Science
Algorithms, automata, complexity and games

Volume 174, Numbers 1–2, 15 March 1997

Abstracted/Indexed in: ACM Computing Reviews, Compuscience, Computer Abstracts, Current Contents: Engineering, Technology & Applied Science, Engineering Index/Compendex, INSPEC Information Services, Mathematical Reviews, Zentralblatt für Mathematik

Contents

Contributions

I. Litovsky and L. Staiger
Finite acceptance of infinite words 1

M.V. Marathe, V. Radhakrishnan, H.B. Hunt III and S.S. Ravi
Hierarchically specified unit disk graphs 23

F. Bracho, M. Droste and D. Kuske
Representation of computations in concurrent automata by dependence orders 67

S. Arora and R. Fagin
On winning strategies in Ehrenfeucht–Fraïssé games 97

P. Orponen
Computing with truly asynchronous threshold logic networks 123

M. Krause and P. Pudlák
On the computational power of depth-2 circuits with threshold and modulo gates 137

P. Favati, G. Lotti and L. Margara
Additive one-dimensional cellular automata are chaotic according to Devaney's definition of chaos 157

M.-L. Santini-Bouchard
Echanges de trois intervalles et suites minimales 171

P. Berman and A. Lingas
A nearly optimal parallel algorithm for the Voronoi diagram of a convex polygon 193

P. Kůrka
On topological dynamics of Turing machines 203

A. Finkel and P. McKenzie
Verifying identical communicating processes is undecidable 217

J. Mullins
On an effective hierarchy of communicating processes: separation principle and testing 231

Mathematical Games

Y. Yamasaki
The arithmetic of reversed positional games 247

Notes

S. Kobayashi and T. Yokomori
Learning approximately regular languages with reversible languages 251

N. Takahashi
Various hierarchies of ω-regular sets 259

P. Turakainen
The undecidability of some equivalence problems concerning ngsm's and finite substitutions 269

G.-Q. Zhang and E.R. Canfield
The end of pumping? 275

Author index volume 174 281